PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUT	HORITY		DOT				
То:		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bls</i> .1)					
see form PCT/ISA/220							
		Date of mailing (day/month/year) see	form PCT/ISA/210 (second she	et)			
Applicant's or agent's file reference see form PCT/SA/220		FOR FURTHER ACTION See paregraph 2 below					
International application No. PCT/GB2005/000074	International filing data (c	day/month/year)	Priority date (day/month/year) 12.01.2004				
International Patent Classification (IPC G08F17/30) or both national classification	and IPC					
Applicant LIGHTFOOT SOLUTIONS LIM	ITED						
EIGHT/601 6020 Hells 200	201FOOT SOLUTIONS LIMITED						
1. This opinion contains indications relating to the following items:							
Box Nq. I Basis of th	e opinion			1			
Box No. II Priority	Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
·							
 ☑ Box No. IV Lack of unity of invention ☑ Box No. V Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 							
☐ Box No. VI Certain do	ocuments cited						
☐ Box No. VII Certain de	efects in the International ap	application					
☐ Box No. VIII Certain of	servations on the internation	onal application	,				
2. FURTHER ACTION			III	e a			
if a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
3. For further details, see not	es to Form PCT/ISA/220.	·					
Name and mailing address of the IS	A:	Authorized Officer		And the same			
European Patent Offic D-10958 Berlin Tel. +49 30 25901 - 0 Fax: +49 30 25901 - 0		Polzer, A Tolophone No. +49	30 2 59 01-427				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

10/586**004** International application No. PCT/GB2005/000074

SAP20 Rec'd PUTIFIO 12 JUL 2006

_	Box No	.1 Basis of the opinion
1.	With rec	pard to the language, this opinion has been established on the basis of the international application in
	☐ Thi	s opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search
2.	With re	gard to any nucleotide and/or amino acid sequence disclosed in the International application and arranged to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	nat of material:
		in written format
	. 🗅	in computer readable form
ı	c. time	e of filing/furnishing:
•		contained in the international application as filed.
•		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
	1	n addition, in the case that more than one version or copy of a sequence listing and/or table relating there has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
	4 Addi	tional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000074

	Вох	No. IV	Lack of unity of in	vention	 		
1. [3	In resp	onse to the invitation (Form PC	TASA/206)	to pay additional fees, the appl	licant has:
			paid additional fees.				
			paid additional fees u	inder prote	est.		
			not paid additional fe	es.			
2.		the sei	alicant to nav addition	ai iees.		of invention is not complied w	· •
3.	Thi	s Autho	rity considers that the	requireme	ent of unity	of invention in accordance wit	h Rule 13.1, 13.2 and 13.3
		complie					
	Ø		nplied with for the follo	wing reas	ons:		
		See 8	eparate sheet				:ational application:
4.	Co	nseque	ntly, this report has be	en establ	ished in re	spect of the following parts of t	We international abbitories.
	Ø	all part	9.			•	,
		the par	ts relating to claims N	los. ,			, r · · · · · · · · · · · · · · · · · ·
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	B	ox No. ' dustria	Reasoned statem especiability; citation	nent unde	er Rule 43 xplanation	bis.1(a)(i) with regard to nove as supporting such statemen	eity, inventive step or nt
1	. s	tatemer	t ·				
	N	ovelty (N)	Yes:	Claims	3-5, 8-10, 12-19	
		, (•	No:	Claims	1,2.6.7, 11	
	lr	nventive	step (IS)	Yes:	'Claims	. 40	
				No:	Claims	1-19	
	Ī	ndustria	applicability (IA)	Yes: No:	Claims Claims	1-19	
:	2. (Citations	and explanations				

see separate sheet

101586004 AP20 Rec'd PCT/PTO 12 JUL 2006 International application No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/GB2005/000074

Reference is made to the following documents:

- D1: PENIX J ET AL: "Automating component integration for web-based data analysis" AEROSPACE CONFERENCE PROCEEDINGS, 2000 IEEE MARCH 18-25, 2000, PISCATAWAY, NJ, USA,IEEE, vol. 4, 18 March 2000 (2000-03-18), pages 465-473, XP010517658 ISBN: 0-7803-5846-5
- D2: ZUR MUEHLEN M ET AL: "Workflow-based process monitoring and controlling technical and organizational issues" SYSTEM SCIENCES, 2000. PROCEEDINGS OF THE 33RD ANNUAL HAWAII INTERNATIONAL CONFERENCE ON JAN 4-7, 2000, PISCATAWAY, NJ, USA,IEEE, 4 January 2000 (2000-01-04), pages 1972-1981, XP010545465 ISBN: 0-7695-0493-0
- D3: LUO QIONG ET AL: "Active query Caching for Database web Servers" THIRD INTERNATIONAL WORKSHOP ON WORLD WIDE WEB AND DATABASES WEBDB 2000, DALLAS, TX, US, [Online] 18 May 2000 (2000-05-18), 19 May 2000 (2000-05-19) pages 92-104, XP002345156 Lecture Notes in Computer Science, Vol.1997, Springer-Verlag Berlin, DE ISBN: 3-540-41826-1 Retrieved from the Internet: URL:http://www.cs.wisc.edu/%7Esekar/public ations.html> [retrieved on 2005-09-15]

Re Item IV Lack of unity of invention

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims 1-10

system and method for extracting user selected data from a database based on configuration data comprising measure and dimension data (see description, pages 3-11)

2. claims 11-19

method for evaluating a database query based on cached query results (see

description, pages 12-17)

The problem to be solved by the first invention may be regarded as retrieving data based on a user request from data stores with heterogeneous configurations, whereas the problem to be solved by the second invention may be regarded as speeding up data retrieval based on a user query for a previously requested data chart.

The common concept between the first and second inventions is the fact that data is retrieved from a database based on a user request. This concept is of course well known, see e.g. D1 page 466 left-hand column second and third paragraphs and figs. 2 and 3. It follows that this common concept is not inventive.

No further common concept or further underlying common concept of the two groups of claims can be identified. Hence, there are no common or corresponding special technical features of the two groups of claims according to Rule 13.2 PCT. Since the common concept identified above is the only common concept, and the problems solved are distinct and different, there is no single general inventive concept according to Rule 13.1 PCT to link the two inventions in order to form unity of said inventions.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The present application does not meet the criteria of Article 33(1) PCT, because the 1. subject-matter of claims 1-19 is not new in the sense of Article 33(2) PCT or does not involve an inventive step in the sense of Article 33(3) PCT.

First Invention

1.1. The document D1 discloses (the references in parentheses applying to this document):

A system for extracting user selected data from a database comprising:

means for storing configuration data defining how user selected data is to be

- extracted in response to a user request for data (page 466 left-hand column line 26; implicit in "component ... specification" on page 466 right-hand column lines 17-22);
- b. means for generating a database query form [slc] the user request using the configuration data (implicit in page 468 left-hand column line 13, "data analysis application" and fig. 2, "Data Analysis Filter");
- c. means for extracting data in response to the query (fig. 2, "Data Analysis Filter");
- d. means for supplying the extracted data to the user (fig. 2, "Data Visualization Device");
- wherein the database query comprises data defining a measure to be displayed (page 467 left-hand column line 36, "data source") and data defining any dimensions for that measure selected by the user (page 467 left-hand column line 40, "data fields"), and the data defining the measure and dimensions comprise a portion of the configuration data (implicit in D1 as any query generated by the system would contain table and attribute data extracted from the "component specification" configuration data mentioned in the passages cited under feature a).

The subject-matter of claim 1 is therefore not new (Article 33(2) PCT).

- 1.2. Dependent claims 2-5 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT), see documents D1 and D2 and the corresponding passages cited in the search report.
- 1.3. Method claims 6-10 contain features which correspond to features of claims 1-5. Therefore, the reasoning under 1.1 and 1.2 applies to claims 6-10 mutatis mutandis.

Second invention

1.4. The document D3 discloses (the references in parentheses applying to this document):

A method for supplying a set of chart data from a database to a user in response to a user input complising the steps of:

- storing a number of sets of chart data in a cache memory (implicit in page 95 third paragraph);
- determining whether a user input corresponds to a request for a set of chart data stored in the cache memory (page 95 lines 13-14); and
- supplying a set of chart data from the cache memory in dependence on the result of the determination (page 95 lines 14-15).

The subject-matter of claim 11 is therefore not new (Article 33(2) PCT).

1.5. Dependent claims 12-19 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT), as the claims merely refer to well-known database cache administration and replacement techniques which would be straightforward to the skilled person.

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